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Marks: 20

STD: VIII

TT - MATHS

Time: 40mins

I. Answer in one word:

1.  $2x - 2y$       2. Other      3.  $6x$       4. Terms      5.  $5(x + 2)$

II. Answer the questions:

$$\begin{aligned} 6. (a + 2)(a^2 + a + 1) &= a(a^2 + a + 1) + 2(a^2 + a + 1) \\ &= a^3 + a^2 + 1 + 2a^2 + 2a + 2 \\ &= a^3 + 3a^2 + 2a + 3 \\ 7. 3x(x + y^2) + 2xy^2 + 2x^2 &= 3x + 3xy^2 + 2xy^2 + 2x^2 \\ &= 5x^2 + 5xy^2 \\ 8. ab + 4a + 3b + 12 &= a(b + 4) + 3(b + 4) \\ &= (a + 3)(b + 4) \\ 9. 7a^2b^2 + 14ab &= 7ab(ab + 2) \\ \quad b) a^2bc + ab^2c + abc^2 &= abc(a + b + c) \\ 10. (x + y)(x - y) &= x^2 - \cancel{xy} + \cancel{xy} - y^2 \\ &= x^2 - y^2 \end{aligned}$$